

ABSTRACT

5 The invention is directed to so-called laser-compatible NIR marker
dyes based on polymethines for use in optical, in particular, fluorescence optical
determination and detection methods, for example, in the fields of medicine,
pharmaceutics and in the areas of life science, materials science and environmental
science. The aim of the invention was to create NIR marker dyes based on
polymethine which have a high degree of photostability and stability in storage as
well as a high fluorescent yield and which can be excited to fluorescence in the
10 easiest possible manner by means of laser radiation in the visible or NIR spectral
range, particularly with light of an argon, helium/neon, or diode laser. According to
the invention, dyes based on polymethine of general formula (I) are used.